

Name: _____



PRACTICE



TUTORIAL

4-1 Additional Practice

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Leveled Practice In 1–2, fill in the boxes to evaluate each expression.

1. Evaluate $3.6x + 4.5y$ when $x = 3$ and $y = 7$.

$$\begin{aligned} & 3.6 \cdot (\quad) + 4.5 \cdot (\quad) \\ & = (\quad) + (\quad) \\ & = (\quad) \end{aligned}$$

2. Evaluate $5r - 8.35s$ when $r = 12$ and $s = 4$.

$$\begin{aligned} & 5.5 \cdot (\quad) - 8.35 \cdot (\quad) \\ & = (\quad) - (\quad) \\ & = (\quad) \end{aligned}$$

3. Write an expression that represents the weight of an object that weighs 12 pounds and increases by 0.5 pound per month, m .

$$\square + \square m$$

For 4–7, evaluate each expression for the given value of the variable(s).

4. $4c - 3$

$c = -2$

5. $\frac{1}{3}x + 5$

$x = -6$

6. $0.3k - 4m$

$k = 20$ and $m = -2$

7. $-50 + \frac{5}{13}p$

$p = -26$

8. **Model with Math** Which expression can be used to determine the total weight of b baseballs that weigh 5.25 ounces each and s softballs that weigh 6.5 ounces each? © MP.4

Ⓐ $5.25b + 6.5s$

Ⓑ $6.5b + 5.25s$

Ⓒ $5.25b - 6.5s$

Ⓓ $11.75(b + s)$



9. Mark loads a crate that weighs 22.5 pounds and 12 boxes that each weigh 11.25 pounds onto a truck. What is the total weight of the crate and the boxes?

- Ⓐ 135 pounds
- Ⓑ 157.5 pounds
- Ⓒ 270 pounds
- Ⓓ 281.25 pounds

10. **Model with Math** Water evaporates at a rate of 1.5 ounces per day from a container that holds 34 ounces when full. Which expression represents the amount of water remaining in the container after d days? Ⓒ MP.4

- Ⓐ $1.5 + 34d$
- Ⓑ $34 + 1.5d$
- Ⓒ $34 - 1.5d$
- Ⓓ $32.5d$

11. A freight train traveling at a rate of 22.5 miles per hour is 60 miles from its destination. How far from the destination will the train be in 2.5 hours?

12. An elevator began at an elevation of 85.5 feet and ascended at a rate of 2.75 feet per second. What was the elevation of the elevator after 8 seconds?

13. **Higher Order Thinking** A full tank that holds 11.6 gallons of gasoline is using 1.45 gallons per hour. Is the tank more than half full of gasoline after 3.5 hours? Explain your answer.

© Assessment Practice

14. Amanda bought g gallons of paint for \$16.55 per gallon and t pints of paint thinner for \$5.97 per pint.

PART A

Write an expression to represent the total amount that Amanda spent.

PART B

If Amanda bought 8 gallons of paint and 3 pints of paint thinner, how much did she spend? Explain your answer.

